R Remote
Operation Manual

Thank you for choosing a Yamaha product.

This operation manual explains setup and use of "R Remote," a Windows application that lets you make head amp (subsequently "HA") settings for the Rio3224-D/Rio1608-D/Ri8-D (subsequently "R series") units.

One computer can make head amp settings for up to eight R series units.

■ Precautions(Please be sure to read this section first!)

- Yamaha Corporation owns exclusive copyrights for the R Remote, and the operation manual.
- It is prohibited to duplicate or modify the firmware, software or manuals, in part or in their entirety, without permission from the copyright owner.
- The screen shots in this guide are for use with this update procedure only and may be different from the actual screen shots.
- This software was not produced with the intention to support touch-panel operation in Windows 8 / Windows 8.1, so we cannot guarantee operation if a touch-panel is used.
- Dante is a registered trademark of Audinate.
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■ System Requirements

In order to use R Remote, you'll need the following items.

- A Windows computer equipped with the following conditions:

OS	Windows 7 SP1 Home Premium or later, Windows 8, Windows 8.1
CPU	Intel Core i3/i5 or higher
HDD	120MB or more
Connector	An Ethernet connector (1000BASE-T or higher recommended.)
Others	Dante Controller and Bonjour must be installed(*)

(*)Download the Dante Controller and Bonjour from the following URL:

http://www.yamahaproaudio.com/

- Ethernet cable (CAT5e or better)
- Network switch (with gigabit Ethernet support)
- R series units (up to 8 units) with firmware V1.70 or later

NOTE

The Ro8-D is also displayed, but its settings cannot be edited. Since this will impose a network load, we recommend that you use the "R Series Information" dialog box to set the connection status to Disconnect.

■ Setup

The setup workflow is shown below.

Installing the R Remote

↓

Settings on the R series units

↓

Connect the computer and R series units

↓

Power-on the R series units

↓

Accessing the Control Panel

↓

TCP/IP Settings

↓

Use Dante Controller or the CL series console to specify the routing

Installing the R Remote

The installation procedure is as follows.

1. Logon to Windows with administer account.

2. After decompressing the downloaded file, double-click “setup.exe” in the decompressed file location.

   The R Remote setup wizard will appear.

   NOTE

   - The “User Account Control” dialog box may appear. Click [Continue] or [Yes].
   - If the computer you’re using does not have Bonjour installed, a screen asking you to install Bonjour will appear during the installation. If you are asked to install Bonjour, download Bonjour from the Yamaha Pro Audio website, and install it. Then install R Remote again.
     http://www.yamahaproaudio.com/

3. Proceed with the installation as directed by the instructions in the screen.

Settings on the R series units

When using R Remote to operate an R series unit, set the DIP switches and [UNIT ID] rotary switch of the unit, taking note of the following settings.

- Set the UNIT ID in the range of 1 to 8. R Remote will not detect units with a setting of 0 or 9 or higher.
- Set the DIP switches to one of the following states, depending on the connection type and the START UP MODE.

Connection	START UP MODE	Dip switch
DAISY CHAIN	REFRESH	(↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑)
	RESUME	(↑ ↑ ↑ ↑ ↑ ↑ ↓ ↑)
REDUNDANT	REFRESH	(↑ ↑ ↑ ↓ ↑ ↑ ↑ ↑)
	RESUME	(↑ ↑ ↑ ↓ ↑ ↑ ↓ ↑)

NOTE

If a CL series unit is not connected, we recommend that you set START UP MODE to RESUME. If this is set to REFRESH, settings must be transmitted from R Remote and Dante Controller each time the R series unit is restarted. Also, if the REFRESH setting is used and R Remote is connected earlier than the CL series unit, the orange [SYNC] indicator will be lit.

Connect the computer and R series units

Use an Ethernet cable to connect the computer and the R series units.

If you selected DAISY CHAIN in “Settings on the R series units" on the previous page, connect the Dante connectors of the R series units in a daisy chain to the computer.

If you selected REDUNDANT in "Settings on the R series units" on the previous page, connect the computer to the network switch that is connected to the Dante [PRIMARY] connector.

Power-on the R series units

Power-on the R series units. If you power-on before making "Settings on the R series units", the settings will not be applied.

Accessing the Control Panel

The way to access the Control Panel will depend on your operating system.

Windows 7

Select [Start] → [Control Panel].

Windows 8 / Windows 8.1

1. In the Start screen, click [Desktop].
   The desktop will appear.

2. Move the cursor to the upper right or lower right corner of the desktop.
   The Charms bar will appear.

3. Select [Settings] → [Control Panel].

TCP/IP Settings

Make TCP/IP settings for the computer as follows.

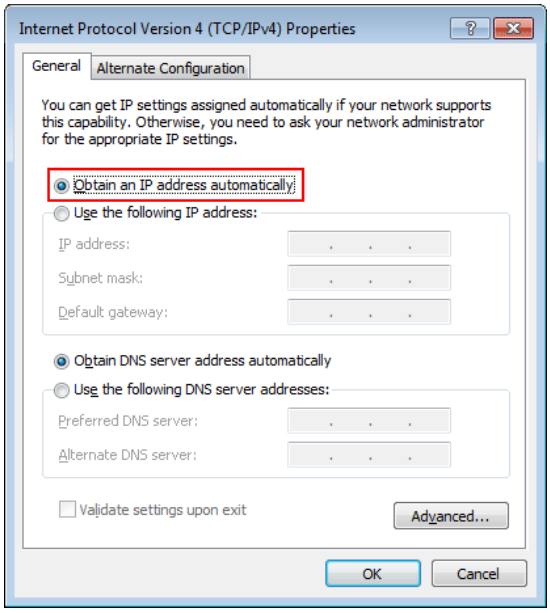
1. Access the Control Panel, then click or double-click [Network and Sharing Center] or [View network status and tasks].
   The “Network and Sharing Center” is displayed.

2. Click [Manage network connection] or [Change adapter settings] from the “Tasks” list located in the left side of “Network and Shearing Center” window, then double-click [Local Area Connection].
   The “Local Area Connection Status” dialog box will be displayed.
   NOTE
   ・The “User Account Control” dialog box may appear. Click [Continue] or [Yes].
   ・If the “Local Area Connection properties” dialog box appears, skip ahead to step 4.

3. Click [Properties].
   「The “Local Area Connection properties” dialog box will be displayed.
   NOTE
   The “User Account Control” dialog box may appear. Click [Continue] or [Yes].

4. Select [Internet Protocol Version 4(TCP/IPv4)], then click [Properties].
   The “Internet Protocol Version 4(TCP/IPv4) Protocol” dialog box will be displayed.

5. Click [Obtain an IP address automatically].


Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

6. Click [OK].

Use Dante Controller or the CL series console to specify the routing

You'll use Dante Controller or the CL series console to specify the routing.

If you're using Dante Controller to specify the routing, refer to "Dante Controller User's Guide."

If you're using a CL series console to specify the routing, refer to "CL5/CL3/CL1 Reference Manual."

This completes the setup.

■Operating **R Remote**

When you start R Remote, the "Network Setup" dialog box may appear, allowing you to select the computer's network card that will be used for communication with the R series units. If this appears, click the network card that is connected to the R series unit, and then click the [Apply] button.
When you're finished using R Remote, click the [x] button in the upper right to close the application.

NOTE
For R Remote for Windows 8 / Windows 8.1, depending upon user access privileges, the software's "Tile(icon)" may not appear on the "Start screen". In such cases, you can find the software icon in "Apps" by the following steps:
1. Right-click anywhere on Start screen.
2. Click "All apps" button at the bottom right side of Start screen.

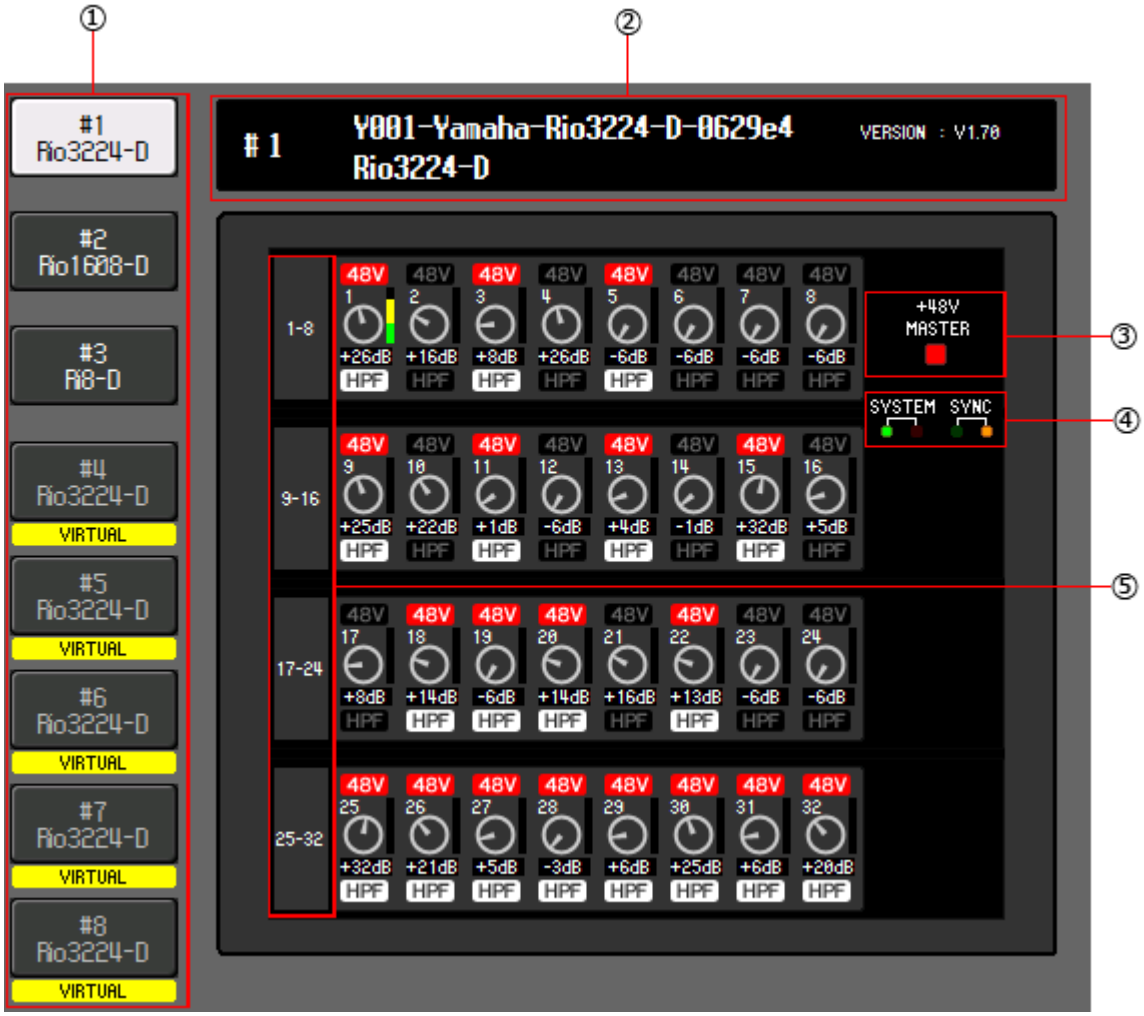
Menu bar

The commands that can be executed by R Remote can be found here, grouped by category.
Click here to see a list of commands.

Menu	Command	Summary	Dialog box that appears
[File]	[Open]	Opens a previously-saved file (RRM format). ***NOTE*** If you open the file when R series units are connected, the settings will be applied to the R series units. Be aware that if a CL series console is also connected, its settings will be overwritten.	"Open File" dialog box
	[Save As]	Saves the file. It will have a file name extension of RRM, and will be usable only by R Remote.	"Save File" dialog box
	[Network Setup]	Selects the computer's network adapter that will be used to communicate with the R series.	"Network Setup" dialog box
	[R Series Information]	Displays information about the R series units that are connected. You can also disconnect R series units that you don't want to control from R Remote.	"R Series Information" dialog box
[About]	[About R Remote]	Displays details such as the software version of R Remote.	"About R Remote" dialog box

Main screen

Here you can make settings for the HA of the R series units.



① Display select buttons

Click one of these buttons to view the corresponding R series unit at the right. Up to two instances of R Remote can be simultaneously connected to an R series unit. For example, this would allow the main operator to operate the CL console while two assistants make small adjustments in different locations. If you hold down this button, all indicators of the corresponding R series unit will blink, allowing you to identify that unit.

If the R series unit is not connected, the Rio3224-D settings screen is shown, and the indication "VIRTUAL" is shown below the button.

② ID/Name indication

Shows the ID number and name of the R series unit.

③ [+48V MASTER] indicator

Indicates the master phantom power on/off status for the R series unit (the on/off setting is switched on the R series unit itself).

④ [SYSTEM] indicator/[SYNC] indicator

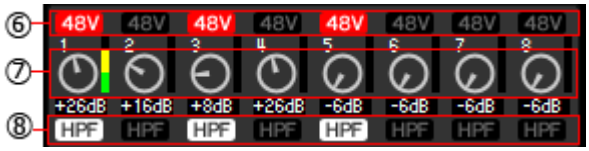
Indicates the status of the R series unit or the Dante status. For more about this indication, refer to "Messages" in the owner's manual of R series.

⑤ Connector index

Indicates the range of connector numbers corresponding to the HA settings shown at right. Click this to access the "I/O Device Edit" dialog box .

HA display area

Here you can view and edit HA settings for the R series unit.



⑥ [+48V] button

Turns phantom power on/off for each channel.

⑦ GAIN knob

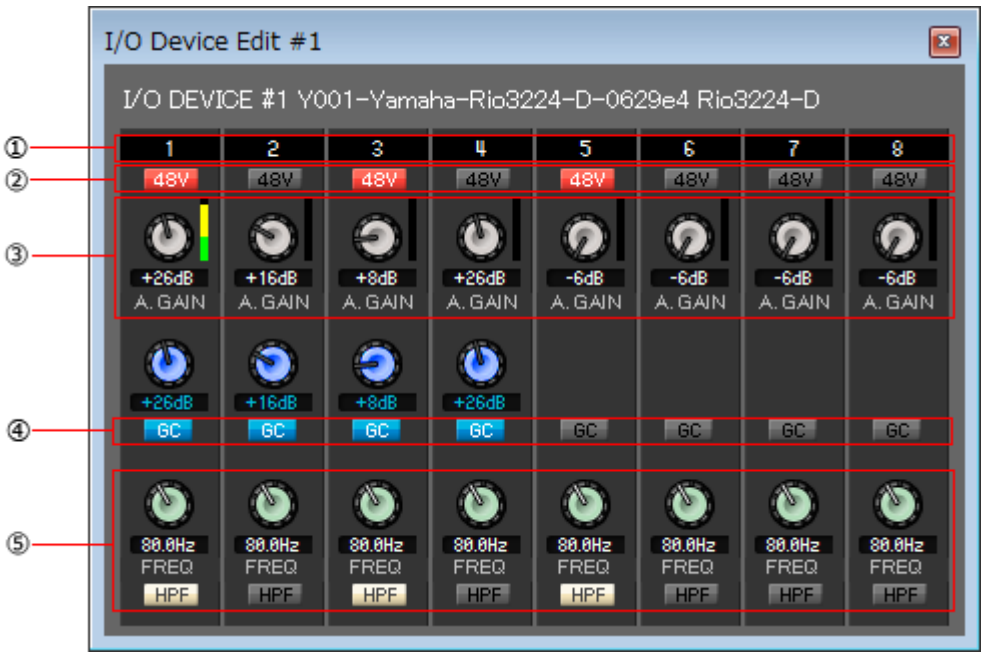
Specifies the analog gain for the HA of the R series unit. The current setting is shown in the numeric box located below the knob. The level meter located at the immediate right of the knob indicates the input level of the corresponding port.

⑧ [HPF] button

This is an on/off switch for the high-pass filter that is built into the HA of the R series unit. To specify the cutoff frequency, make settings in the "I/O Device Edit" dialog box.

“I/O Device Edit” dialog box

Here you can view and edit detailed HA settings for the R series unit. This appears when you click a connector index in the main screen. The toolbar also shows the UNIT ID of the R series unit. To close the dialog box, click the [x] button located in the upper right.



① Connector index

Indicates the connector number of the R series unit. If you click this, the indicator of the corresponding connector of the R series unit will light.

② [+48V] button

Turns the phantom power on/off.

③ [A.GAIN] knob

Specifies the analog gain for the HA of the R series unit. The current setting is shown in the numeric box located below the knob. The level meter located at the immediate right of the knob indicates the input level of the corresponding port.

④ [GC] button

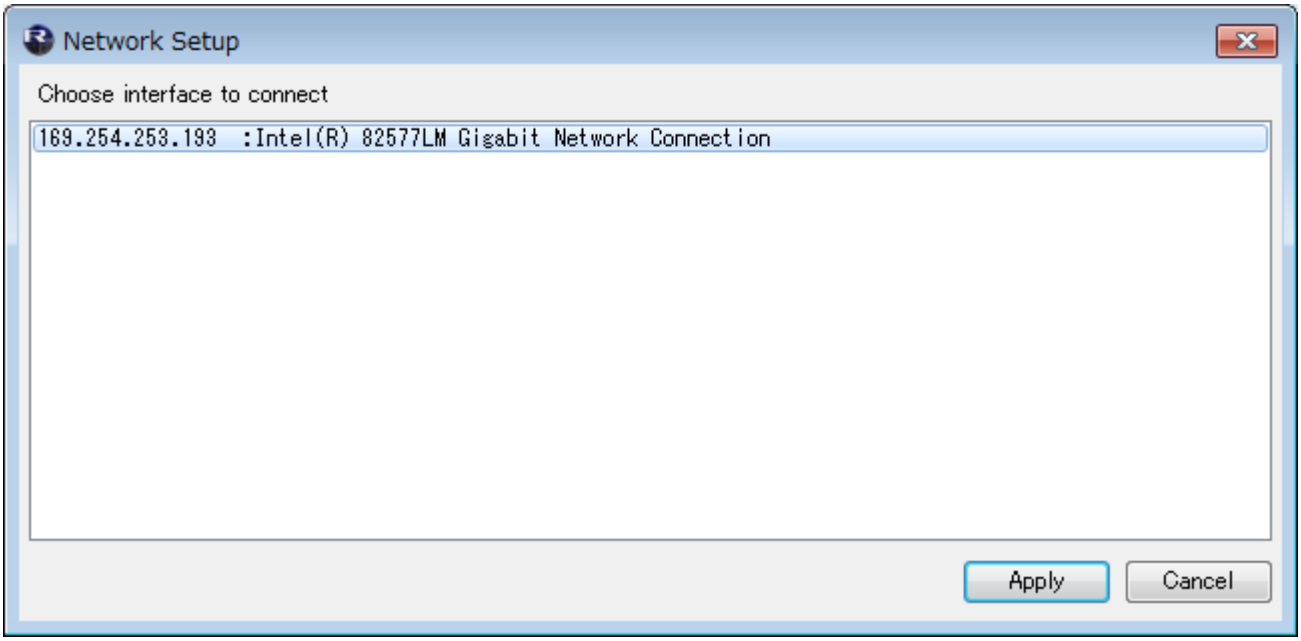
Switches on/off the gain compensation that regularizes the signal level on the audio network. If this is on, the gain value fixed by gain compensation is displayed, and subsequent changes to analog gain is compensated by the compensation gain within the R series unit; audio is transmitted to the Dante network at the gain value that was fixed immediately before this was enabled.

⑤ [FREQ] knob/[HPF] button

Switches on/off the high-pass filter that is built into the HA of the R series unit, and adjusts the cutoff frequency. The current setting is shown in the numeric box located below the knob.

“Network Setup” dialog box

Here you can select the network interface card of the computer that will be used to communicate with the R series (subsequently called “the network card”).



① Network card list

Select the network card that will be used to communicate with R series.

② [Apply] button

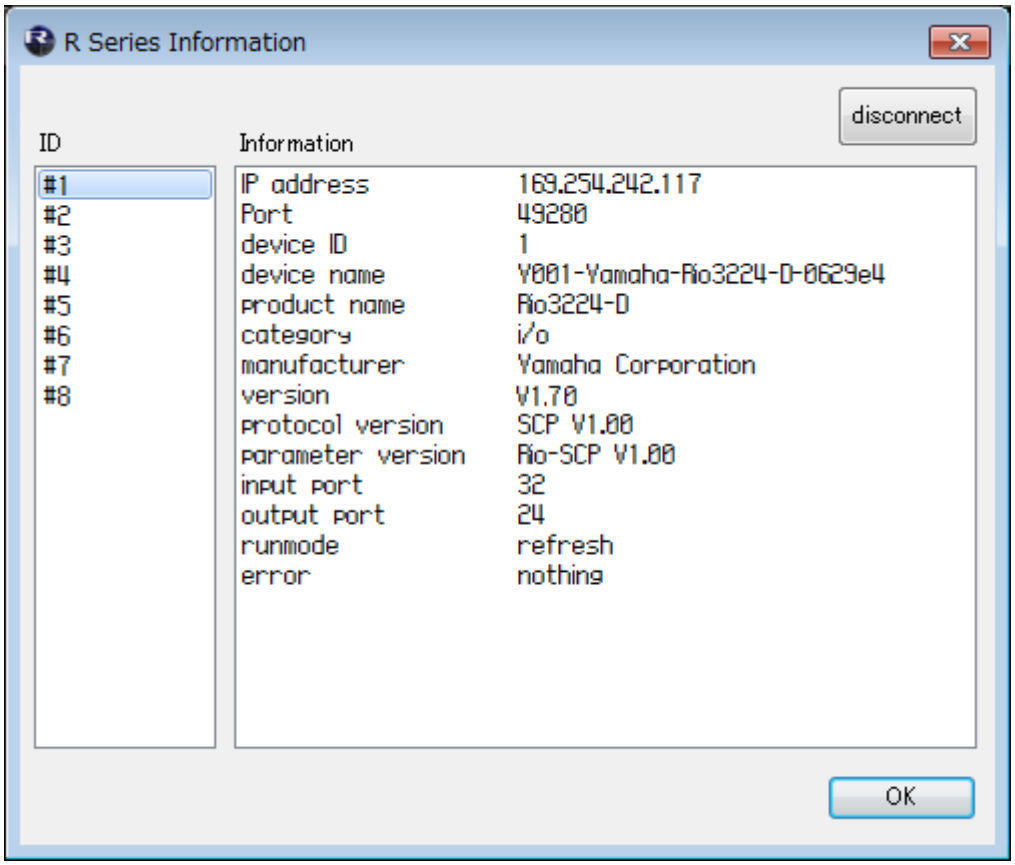
Update the settings and closes the dialog box.

③ [Cancel] button

Close the dialog box without updating the settings.

“R Series Information” dialog box

This displays information about the R series units that are connected. Here you can also change the connection status of each R series unit.



① [ID] list

Click the UNIT ID of the R series unit whose information you want to view.

② [Information] display area

Shows information about the R series unit that is selected in the [ID] list. If a device is not connected, no information is shown.

③ [Disconnect]/[Connect] button

Switches the connection status between the R series unit and the computer. If an Ro8-D is connected, it will load the network, so we recommend that you disconnect it.

④ [OK] button

Close the dialog box.

■Uninstalling the software(Removing the application)

Use "Control Panel" to uninstall the software.

In Control Panel, click [Programs and functions] or [Uninstall a program], then select the item you want to uninstall, and click [Uninstall or change].

A dialog box will appear; follow the instructions in the screen to uninstall the software.

If the "User Account Control" dialog box appears, click [Continue] or [Yes].

■ Troubleshooting

Problem	Possible cause	Action
R series unit is not detected	The R series unit's power switch is not on	Turn the power switch on.
	The R series unit's DIP switch settings are incorrect	Make the same settings as shown in one of the DIP switch setting examples of "Settings on the R series unit".
	The UNIT ID of the R series unit is set to something other than 1 through 8	Set the UNIT ID in the range of 1 to 8.
	The cables are not connected properly	If the right side of the [SYNC] indicator is blinking, a cable is broken or not connected correctly. Connect the cables properly.
		If you're using REDUNDANT mode, connect to the network switch that is connected to the [PRIMARY] connector.
	TCP/IP settings are incorrect	Set the computer's TCP/IP setting to [Obtain IP address automatically (O)].
	Network card selection is incorrect	In the "Network Setup" dialog box, select the network card that communicates with the R series unit.
	Firmware is old	Use V1.70 or later firmware.

Audio is not input / Input level is low	HA gain is not at an appropriate level	Set the HA gain to an appropriate level.
	The external device is not outputting a signal	Output a signal from the source device and make sure that the SIG indicators on the appropriate channels will light.
	A condenser microphone is connected	Turn the [+48V MASTER] switch on.
		Turn phantom power on for the corresponding channel.
	REFRESH mode is selected with the CL not connected	Select RESUME mode.
Adjusting the HA gain does not change the audio level	Gain compensation is on	If you don't need gain compensation, Turn gain compensation off.
[UNIT ID] rotary switch and DIP switch settings are not applied	The settings were changed while the power was on	Turn off the power before changing the settings.
The orange [SYNC] indicator lights (the system enters a state of synchronization in progress)	In REFRESH mode, R Remote was connected before the CL series console	If R Remote is connected first, this is the normal state; simply use R Remote to control the system.

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